

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019584 A2

(51) International Patent Classification⁷: E06B

(21) International Application Number:
PCT/US2004/027197

(22) International Filing Date: 20 August 2004 (20.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/497,020 20 August 2003 (20.08.2003) US

(71) Applicant (for all designated States except US): HUNTER DOUGLAS INC. [US/US]; 2 Park Way, Upper Saddle, NJ 07458 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COLSON, Wendell, B. [US/US]; 14 Byron Road, Weston, MA 02493

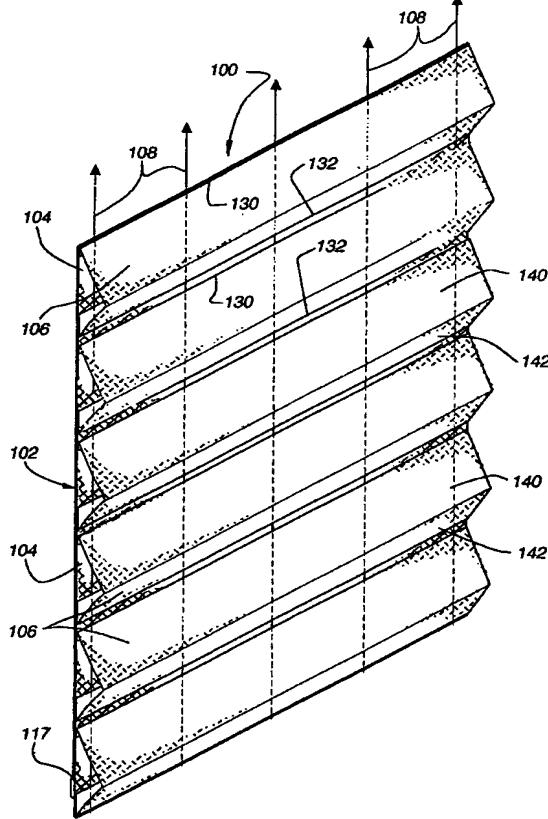
(US). HARPER, Marjorie, G. [US/US]; 10717 West Ottawa Avenue, Littleton, CO 80127 (US). FOGARTY, Daniel, M. [US/US]; 66 Belvidere Avenue, Framingham, MA 01702 (US). HARTMAN, David, P. [US/US]; 40 Lanewood Avenue, Framingham, MA 01701 (US). JELIC, Ralph, G. [US/US]; 1602 Pika Road, Boulder, CO 80302 (US). KOPECKY, Kristi, K. [US/US]; 11575 Marshall Court, Westminster, CO 80020 (US).

(74) Agents: OSMAN, Lee, R. et al.; Dorsey & Whitney LLP, 370 Seventeenth Street, Suite 4700, Denver, CO 80202-5647 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

[Continued on next page]

(54) Title: RETRACTABLE SHADE WITH COLLAPSIBLE VANES



(57) Abstract: A retractable cover for architectural openings having collapsible vanes includes a support structure in the form of a sheet of material, monofilaments, tapes, ribbons, cords, or the like, supporting an upper edge of a plurality of vertically spaced, horizontally extending vanes with the lower edges of the vanes in most embodiments of the invention being connected to operating elements adapted to raise the lower edges of each vane toward the upper edges to define openings or gaps between the vanes through which vision and light can pass in an open condition of the covering. Variations of the covering do not require movement of a lower edge of a vane relative to an upper edge but simply movement of some vanes relative to other vanes. The vanes can be made of materials having different flexibilities and where more rigid materials are used, creased fold lines can be established for desired operability.

WO 2005/019584 A2



PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.